



Micro Commercial Components 20736 Marilla Street Chatsworth

CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939 BAP64-04W BAP64-05W BAP64-06W

Features

- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Low diode capacitance
- Low diode forward resistance

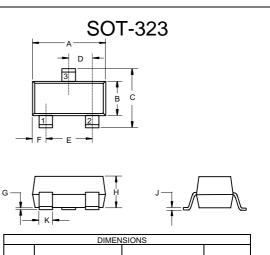
Maximum Ratings @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
Continuous Reverse Voltage	V_R	175	V
Forward Current	I _F	100	mA
Power Dissipation(T _A =90°C)	P_D	200	mW
Junction and Storage temperature	T _j , P _{stg}	-55~+150	°C
Thermal Resistance Junction to Ambient	RthJA	625	°C/W

Electrical Characteristics @ 25°C Unless Otherwise Specified

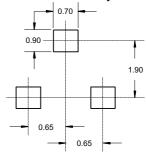
Parameter	Symbol	Min.	TYP	Max.	Unit	Conditions
Reverse Voltage Leakage	I _R			10	uA	V _R =175V
Current				1.0	 .	V _R =20V
Forward voltage	V_{F}			1.1	V	I _F =50mA
Diode capacitance	C _{d1}		0.52		pF	V _R =0V,f=1MHz
	C_{d2}		0.37	0.5	pF	V _R =1V,f=1MHz
	C _{d3}		0.23	0.35	pF	V _R =20V,f=1MHz
	r_D		20	40	Ω	I _F =0.5mA, f=100MHz
Diode forward	r _D		10	20	Ω	I _F =1mA , f=100MHz
resistance	r_D		2	3.8	Ω	I _F =10mA , f=100MHz
	r_{D}		0.7	1.35	Ω	I _F =100mA , f=100MHz
Charge carrier						when switched from
life time	τ_{L}		1.55		μS	l _F =10mAtok=6mA;R∟=
						100 Ω ;measured at I _R =3mA
Series inductance						
BAP64-04W/06W BAP64-05W	Ls		1.6 1.4		nH nH	I _F =100mA, f=100MHz I _F =100mA, f=100MHz

General Purpose Pin Diodes 200mW



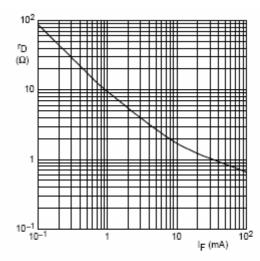
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.071	.087	1.80	2.20	
В	.045	.053	1.15	1.35	
С	.083	.096	2.10	2.45	
D	.026 Nominal		0.65Nominal		
Е	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
Η	.035	.039	.90	1.00	
J	.004	.010	.100	.250	
K	.006	.016	.15	.40	

Suggested Solder Pad Layout



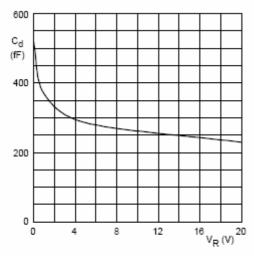


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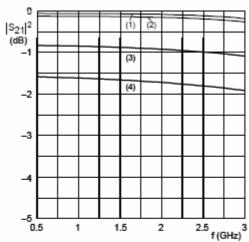
f = 100 MHz; T_J = 25 °C.

Forward resistance as a function of forward current; typical values.



f = 1 MHz; T_J = 25 °C.

Diode capacitance as a function of reverse voltage; typical values.

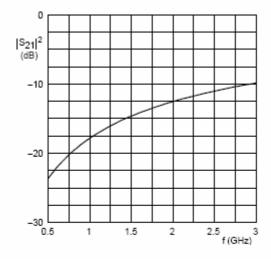


- (1) I_F = 100 mA.
- (3) I_F = 1 mA.
- !) IF = 10 mA.
- (4) I_F = 0.5 mA.

Diode inserted in series with a 50 Ω stripline circuit and biased via the analyzer Tee network.

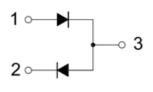
T_{amb} = 25 °C.

Insertion loss ($|S_{21}|^2$) of the diode as a function of frequency; typical values.

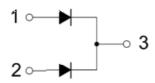


Diode zero biased and inserted in series with a 50 Ω stripline circuit. T_{amb} = 25 °C.

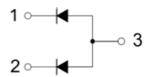
Isolation ($|S_{21}|^2$) of the diode as a function of frequency; typical values.



BAP64-04W MARKING:4W



BAP64-05W MARKING:5W



BAP64-06W MARKING:6W



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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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